WATER, AIR AND SOIL POLLUTION / *Volume 115 Nos. 1–4 October 1999*

Special Section:
Fate of Pesticides in the Atmosphere:
Implications for Environmental Risk Assessment

Guest-editors:
Harrie F.G. van Dijk, W. Addo J. van Pul, and Pim de Voogt

H.F.G. VAN DIJK, W.A.J. VAN PUL and P. DE VOOGT / Atmospheric Transport of Pesticides: Assessing Environmental Risks 3–4
R. GUICHERIT, D.J. BAKKER, P. DE VOOGT, F. VAN DEN BERG, H.F.G. VAN DIJK and W.A.J. VAN PUL / Environmental Risk Assessment for Pesticides in the Atmosphere; The Results of an International Workshop 5–19
H.F.G. VAN DIJK and R. GUICHERIT / Atmospheric Dispersion of Current-Use Pesticides: A Review of the Evidence from Monitoring Studies 21–70
N.M. VAN STRAALEN and C.A.M. VAN GESTEL / Ecotoxicological Risk Assessment of Pesticides Subject to Long-Range Transport 71–81
M.S. MAJEWSKI / Micrometeorologic Methods for Measuring the Post-Application Volatilization of Pesticides 83–113
T.F. BIDLEMAN / Atmospheric Transport and Air-Surface Exchange of Pesticides 115–166
J.A. VAN JAARSVELD and W.A.J. VAN PUL / Modelling of Atmospheric Transport and Deposition of Pesticides 167–182
A.J. GILBERT / Regulatory Risk Assessment of Pesticide Residues in Air 183–194
F. VAN DEN BERG, R. KUBIAK, W.G. BENJEY, M.S. MAJEWSKI, S.R. YATES, G.L. REEVES, J.H. SMELT and A.M.A. VAN DER LINDEN / Emission of Pesticides into the Air 195–218
R. ATKINSON, R. GUICHERIT, R.A. HITES, W.-U. PALM, J.N. SEIBER and P. DE VOOGT / Transformations of Pesticides in the Atmosphere: A State of the Art 219–243
W.A.J. VAN PUL, T.F. BIDLEMAN, E. BRORSTRÖM-LUNDÉN, P.J.H. BUILTJES, S. DUTCHAK, J.H. DUYZER, S.-E. GRYNING, K.C. JONES, H.F.G. VAN DIJK and J.A. VAN JAARSVELD / Atmospheric Transport and Deposition of Pesticides: An Assessment of Current Knowledge 245–256
D.J. BAKKER, A.J. GILBERT, D. GOTTSCHILD, T. KUCHNICKI, R.W.P.M. LAANE, J.B.H.J. LINDERS, D. VAN DE MEENT, M.H.M.M. MONTFORTS, J. PINO, J.W. POL and N.M. VAN STRAALEN / Implementing Atmospheric Fate in Regulatory Risk Assessment of Pesticides: (How) Can it be Done? 257–266

List of Participants 267–272
The Organising Committee 273
About the Health Council of the Netherlands 275–276

Regular Section

P. KJELDSEN / Behaviour of Cyanides in Soil and Groundwater: A Review 279–307
M.A. ISLAM and E. STANCHEVA / Volatile Organic Compounds in the Ambient Air of Rousse, Bulgaria 309–320
O. AZIZ, A.INAM and SAMIULLAH / Utilization of Petrochemical Industry Waste Water for Agriculture 321–335

S.-C. TAM, S.A. JOHNSON and A. GRAHAM / The Effect of Organic Structures on Pentachlorophenol Adsorption on Soil 337–346
MD. ABUL KASHEM and BAL RAM SINGH / Heavy Metal Contamination of Soil and Vegetation in the Vicinity of Industries in Bangladesh 347–361
LIJUN JIN, YANG HUI and XIAOQING XU / Predictive Model for Mercury Accumulation in Carp (*Cyprinus Carpio*) of Reservoirs in China 363–370
A.J. CHINKUYU and R.S. KANWAR / Effect of Lime Application on the Movement of Atrazine and Nitrate-Nitrogen Through Undisturbed-Saturated Soil Columns 371–384
E. BARRADO, F. PRIETO, J. RIBAS and F.A. LÓPEZ / Magnetic Separation of Ferrite Sludge from a Wastewater Purification Process 385–394
C. SLUSZNY, E.R. GRABER and Z. GERSTL / Sorption of *s*-Triazine Herbicides in Organic Matter Amended Soils: Fresh and Incubated Systems 395–410
A. ARDELEANU, S. LORANGER, G. KENNEDY, G. L'ESPÉRANCE and J. ZAYED / Emission Rates and Physico-Chemical Characteristics of Mn Particles Emitted by Vehicles Using Methylcyclopentadienyl Manganese Tricarbonyl (MMT) as an Octane Improver 411–427
D. OLLIVON, M. BLANCHARD and B. GARBAN / PAH Fluctuations in Rivers in the Paris Region (France): Impact of Floods and Rainy Events 429–444
M. ZUNCKEL, S. PIKETH and T. FREIMAN / Dry Deposition of Sulphur at a High-Altitude Background Station in South Africa 445–463
R. KREBS, S.K. GUPTA, G. FURRER and R. SCHULIN / Gravel Sludge as an Immobilizing Agent in Soils Contaminated by Heavy Metals: A Field Study 465–479
F.A.L. PACHECO, A. SOUSA OLIVEIRA, A.J. VAN DER WEIJDEN and C.H. VAN DER WEIJDEN / Weathering, Biomass Production and Groundwater Chemistry in an Area of Dominant Anthropogenic Influence, the Chaves-Vila Pouca de Aguiar Region, North of Portugal 481–512
J.A. FLECK, D.F. GRIGAL and E.A. NATER / Mercury Uptake by Trees: An Observational Experiment 513–523
K.P. WALSH and R.G. McLAUGHLAN / Bubble Extraction of Dissolved Gases from Groundwater Samples 525–534
J.P. KIM and S.BURGGRAAF / Mercury Bioaccumulation in Rainbow Trout (*Oncorhynchus Mykiss*) and the Trout Food Web in Lakes Okareka, Okaro, Tarawera, Rotomahana and Rotorua, New Zealand 535–546
D.L. CORRELL, T.E. JORDAN and D.E. WELLER / Effects of Precipitation and Air Temperature on Nitrogen Discharges from Rhode River Watersheds 547–575